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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/032,806	12/28/2001	Alistair Goudie	WIRO:014US/JJB	6956	
25094	25094 7590 05/21/2004 .			EXAMINER	
GRAY, CARY, WARE & FREIDENRICH LLP			FERNANDES,	FERNANDES, CHERYL M	
1221 SOUTH SUITE 400	1221 SOUTH MOPAC EXPRESSWAY SUITE 400		ART UNIT	PAPER NUMBER	
	AUSTIN, TX 78746-6875			7	
			DATE MAILED: 05/21/2004	, ,	

Please find below and/or attached an Office communication concerning this application or proceeding.

			30			
	,	Application No.	Applicant(s)			
Office Action Summary		10/032,806	GOUDIE ET AL.			
		Examiner	Art Unit			
		Cheryl M Fernandes	2171			
۔ Period fo	 The MAILING DATE of this communication app Reply 	ears on the cover sheet with the	correspondence address			
THE M - Extens after S - If the p - If NO p - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 (b) MONTHS from the mailing date of this communication. exercide for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	imely filed ays will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🛛 🗆	Responsive to communication(s) filed on 11 Ju	<u>ıne 2002</u> .				
2a) ☐						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositio	on of Claims					
5)□ (6)⊠ (7)⊠ (Claim(s) <u>1-5</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>1-5</u> is/are rejected. Claim(s) <u>2-4</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application	on Papers					
10)⊠ 7	The specification is objected to by the Examine The drawing(s) filed on <u>28 December 2001</u> is/a Applicant may not request that any objection to the objected tracking sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a) ☐ accepted or b) ☒ object drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
a)∑	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage			
Attachment((s)					
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
3) 🔯 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 4.		Patent Application (PTO-152)			

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DETAILED ACTION

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Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the head and tail of the queues, the latest read pointer, committed read pointer, second latest read pointer, latest write pointer, and committed write pointer must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

- 3. Claims 2-4 are objected to because of the following informalities:
 - Claim 2: The semicolon in line 14 should be replaced with a comma that links the
 - remaining part of the claim (lines 15-16). Appropriate correction is required.
 - Claims 3 and 4 are also hereby objected to due to their dependency from claim

2.

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4. Claim 4 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only. Examiner suggests that claim 4 read "A method according to either of claims 1 or 2...". See MPEP § 608.01(n).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claim 5, the limitation "the received data" is recited in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent Number 5,016,221 issued to Hamstra.

7. Referring to claim 1, Hamstra discloses:

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A method of managing data stored in a queue in memory (FIFO memory configuration, see Abstract¹), the method comprising:

- reading data from a head of the queue² ('committed binary information' is read, Figure 3E element 50 in col. 8, lines 47-49);
- updating the location of a latest read pointer ('read pointer', see Figure 3E,
 element 30) to a location corresponding to the end of the data (col. 8, line 47 to col. 9, line 12 (Figure 3E));
- transferring the data to a destination ('shared data medium', 'optical fiber ring LAN', see Figure 4, element 22; col. 9, lines 39-52; col. 10, lines 8-31); and,
- upon receiving confirmation that the data transfer was successful (col. 10, line 8 to col. 11, line 27), updating the location of a committed read pointer ('commit pointer', Figure 3G, element 32) to a location corresponding to the end of the data (col. 12, lines 8-20).
- 8. Referring to claim 2, Hamstra discloses that upon receiving no confirmation or a negative confirmation that the data transfer was successful (col. 9, lines 20-23), the location of the latest read pointer is updated to assume the location of the committed read pointer (col. 9, lines 20-38).
- 9. Referring to claim 3, Hamstra discloses storing the latest read pointer location and the committed read pointer location, and using the latest read pointer and the committed read pointer to manage data subsequently read ('registers' store memory

¹ Examiner asserts that since Hamstra discloses a FIFO memory configuration, he is referring to a method of managing a queue in memory.

² Examiner asserts that reading data from a FIFO queue is done from the head of the queue.

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address values of the pointers, col. 6, lines 8-39) from a second queue (col. 6, lines 59-65).

- 10. Referring to claim 4, Hamstra discloses reading second data from the head of the queue, updating the location of a second latest read pointer to a location corresponding to the end of the second data, and transferring the second data to the destination. Refer to the first 3 limitations of claim 1 addressed above with regard to the above mentioned limitations of claim 4 (see col. 6, line 59- col. 7, line 8 for the presence of the second data).
- 11. Referring to claim 4, Hamstra also discloses upon receiving confirmation that the transfer of the second data was successful (col. 10, line 8 to col. 11, line 27; col. 12, lines 3-7), removing the second latest read pointer from the location corresponding to the end of the second data (col. 12, lines 8-20).
- 12. Referring to claim 5, Hamstra discloses:
 - writing data to a tail of the queue³ ('stored binary information', Figures 3B and 3C, element 50 in col. 7, lines 17-43);
 - updating the location of a latest write pointer ('W-pointer', see Figures 3B and 3C pertaining to element 34) to a location corresponding to the end of the data (col. 7, lines 40-43); and,
 - upon receiving confirmation that the received data is correct, updating the location of a committed write pointer ('commit pointer', Figures 3C and 3D,

³ Examiner asserts that writing data to a FIFO queue is done from the tail of the queue.

element 32) to a location corresponding to the end of the data (col. 11, line 59 to col. 12, line 7).

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Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents or publications are cited to further show the state of the art with respect to receiving and transmitting data in stored queues using pointers such as read and write pointers.

US Patent Number 5,708,799 issued to Graziano et al (Abstract; col. 1, lines 63-65; col. 2, lines 10-13 and lines 26-31; col. 13, lines 36-39; col. 15 line 48 to col. 16 line 4).

US Patent Number 5,696,910 issued to Pawlowski (Abstract; col. 1, line 57 to col. 2, line 12;col. 10, line 58 to col. 11, line 34; col. 12, lines 9-19).

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheryl M Fernandes whose telephone number is (703) 305-3917. The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (703) 308-1436. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Business Center (EBC) at 866-217-9197 (toll-free).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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